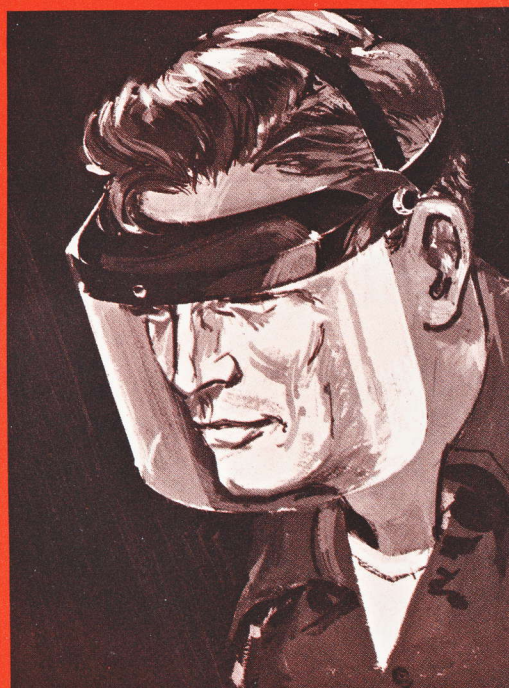
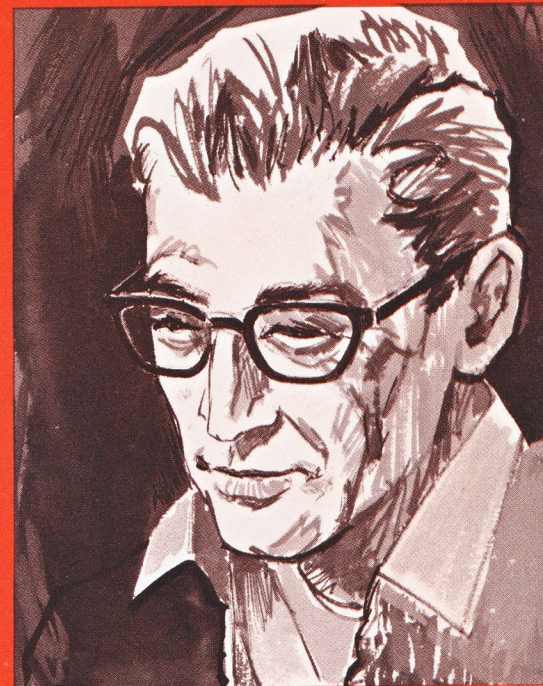


complete line of Welsh eye and face protection



WELSH
MANUFACTURING COMPANY
PROVIDENCE, RHODE ISLAND



COMPLIMENTS OF YOUR WELSH FRANCHISED DEALER

WELSH ... protection by design

Since its establishment in 1925, Welsh has been an innovator in design. Constantly working with new materials and backed with excellent engineering capabilities, plus superior craftsmanship, Welsh has developed new and improved products for personal protection against the many hazards existing in modern industry.

Today, in three plants encompassing more than 120,000 square feet of manufacturing space, and with its own research facilities, Welsh devotes 100% of its effort to the improvement of the individuals personal safety in hazardous occupations.

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HOW TO USE THIS CATALOG.

Welsh Catalog 66E is designed to be used easily with the Eye and Face Protection price list. At the bottom of each product page in the catalog there is a reference to the corresponding product page in the price list. Catalog 66E is divided by the following product groups: Lenses, Safety Spectacles, Goggles, Welding Helmets, Face Shields. Detailed information on replacement parts follows each product group.

safety lenses

WELSH LENSES are individually tested to conform to Government Specifications for impact resistance and optical quality. All Welsh safety spectacles and goggles are fitted with heat treated, WM lenses unless otherwise specified. **Welsh protective plastic lenses** also meet applicable Government Specifications. All Welsh plastic lenses have high resistance to pitting, scratching, abrasions, acids and temperature.

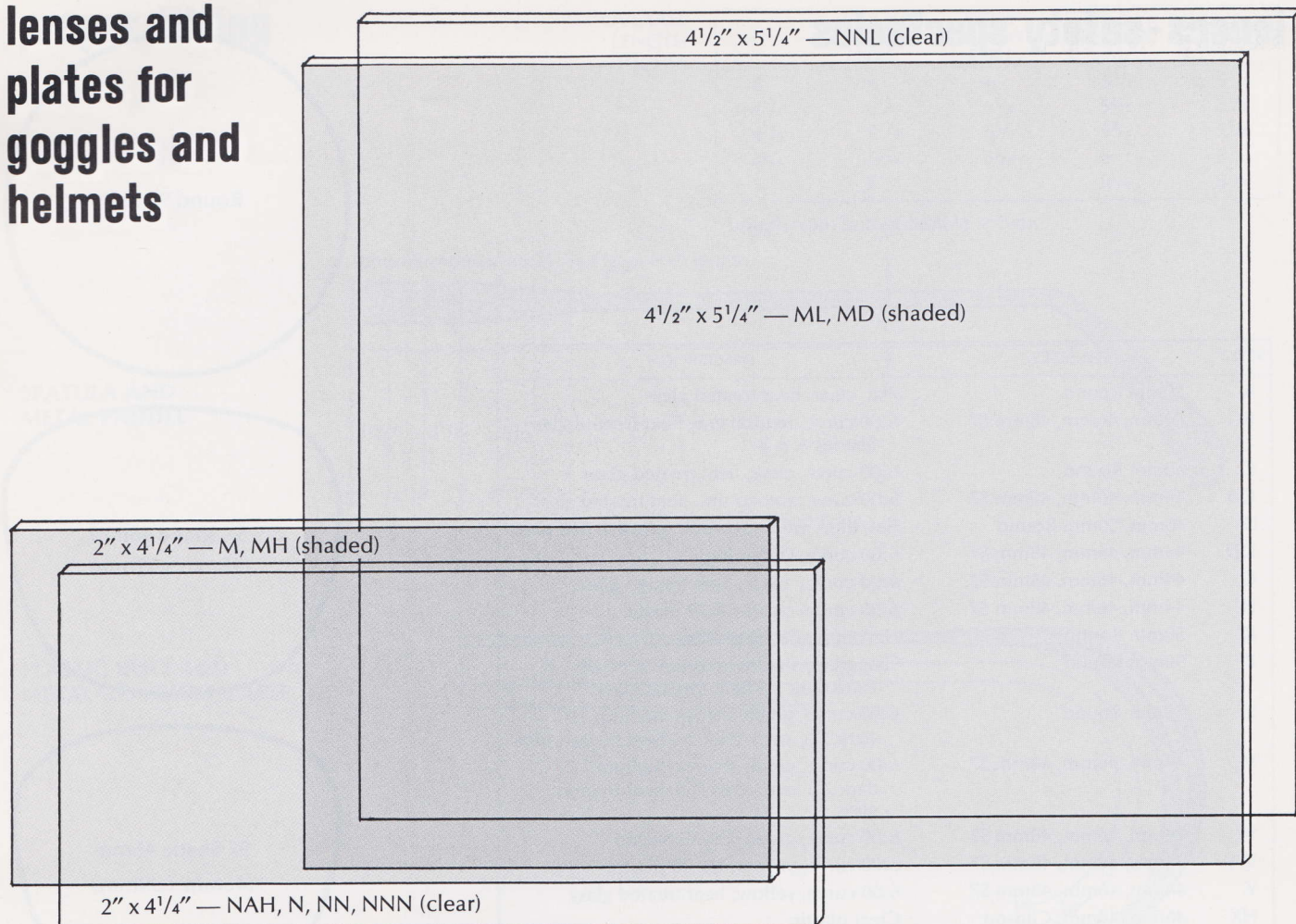
WELSH WELDING PLATES meet all Federal Specifications. Special shapes and sizes of filter glass can be obtained on special order. Heat treated welding plates can be obtained on special order.

Following transmission table shows how the visible and invisible rays are eliminated.

| TRANSMISSION | | | | |
|---|----------------|---------|-----------|--------------|
| RECOMMENDED USES | SHADE | VISIBLE | INFRA RED | ULTRA VIOLET |
| For soldering, metal pouring and work around furnaces | Medium 1.7 | 50% | 20% | 0.2% |
| | Dark 2.0 | 37% | 15% | 0.2% |
| | Extra Dark 2.5 | 23% | 12% | 0.2% |
| For torch brazing and light cutting (up to 1") | 3.0 | 13.9% | 9% | 0.2% |
| | 4.0 | 5.18% | 5% | 0.2% |
| From medium cutting (1" to 6") to heavy cutting (6" and more) From gas welding — light (up to 1/8") to medium (1/8" to 1/2") | 5.0 | 1.93% | 2% | 0.2% |
| | 6.0 | .72% | 1.5% | 0.1% |
| For heavy gas welding (1/2" or more) | 8.0 | .100% | 1.0% | 0.1% |
| | 9.0 | .037% | 0.8% | 0.1% |
| For shielded metal-arc welding (1/16", 3/32", 1/8", 5/32" electrodes) | 10.0 | .0139% | 0.6% | 0.1% |
| For inert-gas, metal-arc welding — ferrous (1/16", 3/32", 1/8", 5/32" electrodes) | 11.0 | .0052% | 0.5% | 0.05% |
| For inert-gas, metal-arc welding — ferrous (1/16", 3/32", 1/8", 5/32" electrodes) Shielded metal-arc welding (3/16", 7/32", 1/4" electrodes) | 12.0 | .0019% | 0.5% | 0.05% |
| | 13.0 | .00072% | 0.4% | 0.05% |
| Shielded metal-arc welding (5/16", 3/8" electrodes) Carbon arc welding | 14.0 | .00027% | 0.3% | 0.05% |
| For Atomic Hydrogen welding shades 10 - 14 are recommended. | | | | |

WELSH SPECIAL USE LENSES, in either plastic or glass, are made for a wide range of applications. All are made under the same high ophthalmic standards employed for other Welsh lenses.

lenses and plates for goggles and helmets



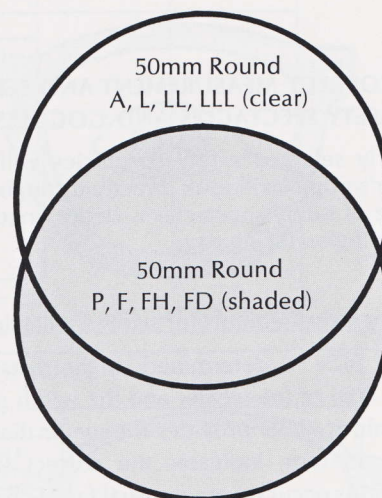
magnaview

Welding Magnifier Lightweight magnification lens

Eight powers of magnification: .75D, 1.00D,
1.25D, 1.50D,
1.75D, 2.00D,
2.25D and 2.50D

This lens is made of clear glass, optically correct, for welders wearing bi-focals and for close-up precision work. Fits all standard welding helmets and Model 5072 cover goggles. Packaged in individual plastic cases.

| STYLE | LENS SIZES | DESCRIPTION |
|-------|-----------------|--|
| A | 50mm Round | Flat, clear, heat treated glass |
| P | 50mm Round | Flat, green, heat treated glass |
| F | 50mm Round | Flat, green-shades 3-8 |
| FH | 50mm Round | Flat, green-shades 3-8, heat treated glass |
| FD | 50mm Round | Welding didymium glass, green-shades 3-6 |
| L | 50mm Round | Clear, glass cover |
| LL | 50mm Round | Clear, Acetate-.020, cover |
| LLL | 50mm Round | Clear, CR-39 plastic cover |
| M | 2" x 4 1/4" | Green-shades 3-14, glass |
| MH | 2" x 4 1/4" | Green-shades 3-14, heat treated glass |
| ML | 4 1/2" x 5 1/4" | Green-shades 3-14, glass |
| MD | 4 1/4" x 5 1/4" | Welding Didymium |
| N | 2" x 4 1/4" | Clear, glass cover |
| NN | 2" x 4 1/4" | Clear, plastic-.020 cover |
| NNN | 2" x 4 1/4" | Clear, CR-39 cover |
| NNNL | 4 1/2" x 5 1/4" | Clear, CR-39 cover |
| NAH | 2" x 4 1/4" | Clear, heat treated glass |



Special sizes of filter plates are available on request. All Welsh lenses conform to Government Specifications where such specifications exist.

For prices on all goggles and helmet lenses and plates, see pages 20 & 21 of Price List.

lenses - safety spectacles

| STYLE | LENS SIZES | DESCRIPTION |
|-------|---------------------|---|
| A | 50mm Round | Flat, clear, heat treated glass |
| BG | 44mm, 46mm, 48mm S7 | 6:00 curve, neutral gray heat treated glass. Shades A & B |
| C | 50mm Round | 6:00 curve, clear, heat treated glass |
| CA | 44mm, 46mm, 48mm S7 | 6:00 curve, smoke tint, heat treated glass |
| D | 40mm, 50mm Round | Flat, blue-medium shade, unhardened glass |
| DD | 44mm, 46mm, 48mm S7 | 6:00 curve, Didymium |
| G | 44mm, 46mm, 48mm S7 | 6:00 curve, clear, heat treated glass |
| H | 44mm, 46mm, 48mm S7 | 6:00 curve, clear, CR-39 plastic |
| K | 50mm Round | Flat, clear, CR-39 plastic |
| P | 50mm Round | Flat, green-shades medium 1.7, dark 2.0, extra dark 2.5 heat treated glass |
| S | 50mm Round | 6:00 curve, green-shades medium 1.7, dark 2.0, extra dark 2.5 heat treated glass |
| V | 44mm, 46mm, 48mm S7 | 6:00 curve, green-shades medium 1.7, dark 2.0, extra dark 2.5, heat treated glass |
| W | 44mm, 46mm, 48mm S7 | 6:00 curve, green, CR-39 plastic |
| WY | 44mm, 46mm, 48mm S7 | 6:00 curve, yellow, CR-39 plastic |
| Y | 44mm, 46mm, 48mm S7 | 6:00 curve, yellow, heat treated glass |
| HX | 46mm, 48mm, Clip-on | Clear plastic |
| WX | 46mm, 48mm, Clip-on | Green plastic |

For prices on safety spectacle lenses, see page 12 of Price List.

THE CORRECT MEASUREMENT AND SELECTION OF SAFETY SPECTACLES AND GOGGLES . . .

Properly selected safety spectacles will be of such dimensions that the wearer's pupils will look directly through the center of the lenses. The overall size of safety spectacles is determined by the distance (PD) as indicated in drawing on facing page.

The key measurements for safety spectacles are:

FRAME SIZE . . . determined by the distance between the pupils (PD) of the wearer and the width of the nose (DBL). (PD) minus (DBL) provides the major diameter of the lens which, in turn, indicates the correct frame size. Some exceptions occur due to unusual facial characteristics when a larger lens size than indicated may be required.

EYE SIZE . . . for plastic safety spectacles, it is the distance at the widest point of the inner lens frame plus 2 mm's.

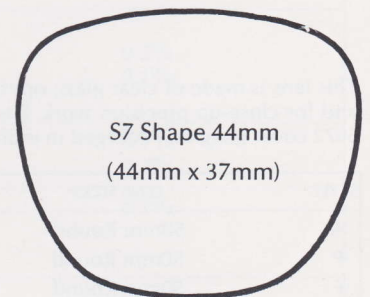
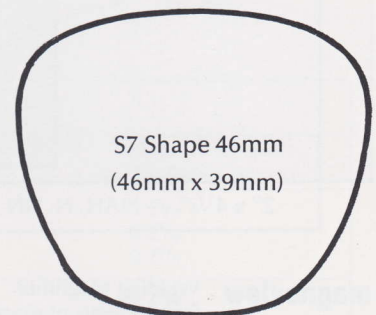
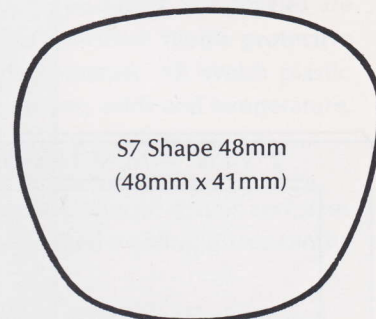
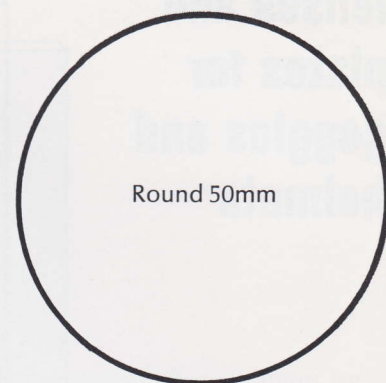
EYE SIZE . . . for metal safety spectacles *without side shields*, it is the same distance plus 1 mm. *With* side shields it is the same plus approximately 2 mm.

LENS SIZE . . . round lenses are sized by their true diameter in mm's.

LENS SIZE . . . square shape lenses are available in four sizes: 42 mm, 44 mm, 46 mm and 48 mm, which is the widest diameter of each. The narrower or vertical diameter of each is 35 mm, 37 mm, 39 mm and 41 mm respectively.

BRIDGE SIZE . . . determined by the distance between the lenses in mm's.

TEMPLE SIZE . . . measured in inches from the end piece of the spectacles to 1/4" below the top and to the rear of the ear.



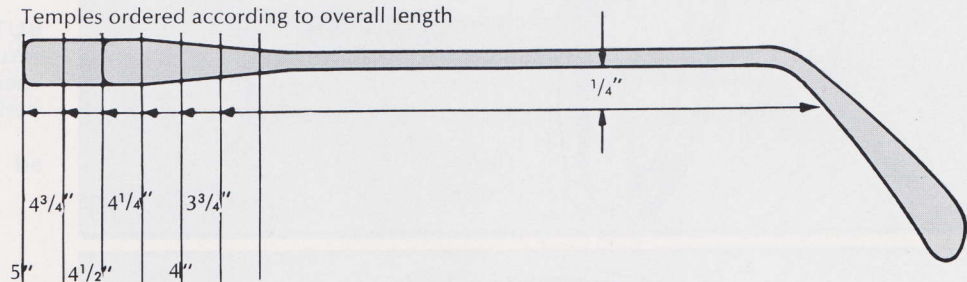
proper fitting

OVERALL
LENGTH
— INCHES

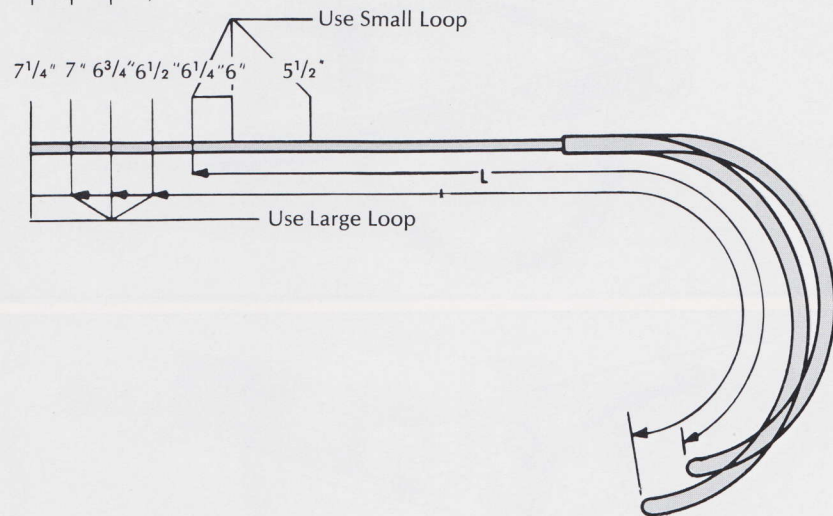
| FIT* | PLASTIC BUTT COVERED CABLE | METAL COMFORT CABLE | SPATULA | METAL PADDLE |
|-------------------------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 4 | 6 | 6 | 5 ¹ / ₄ | 5 ¹ / ₄ |
| 4 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 5 ¹ / ₂ | 5 ¹ / ₂ |
| 4 ¹ / ₂ | 6 ¹ / ₂ | 6 ¹ / ₂ | 5 ³ / ₄ | 5 ³ / ₄ |
| 4 ³ / ₄ | 6 ³ / ₄ | 6 ³ / ₄ | 6 | 6 |
| 5 | 7 | 7 | 6 ¹ / ₄ | 6 ¹ / ₄ |

*Length from butt of temple to bend

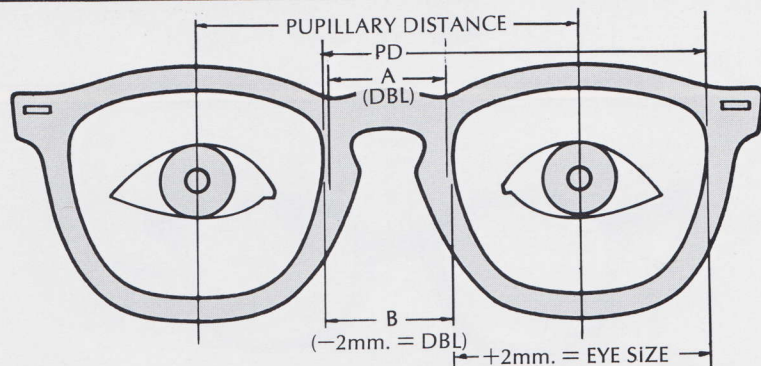
SPATULA AND METAL PADDLE



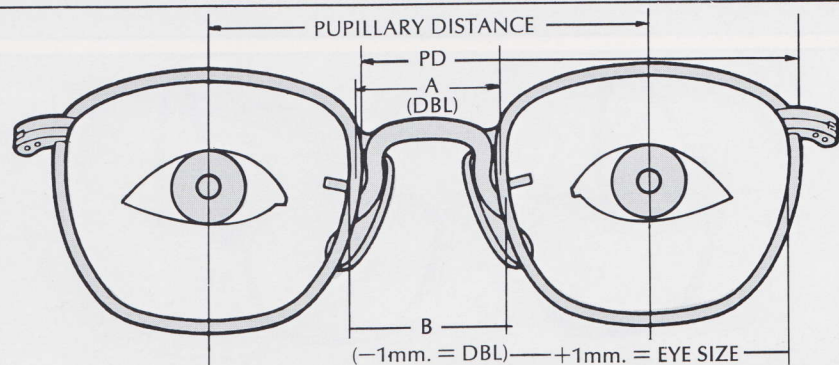
PLASTIC BUTT AND METAL COMFORT CABLE



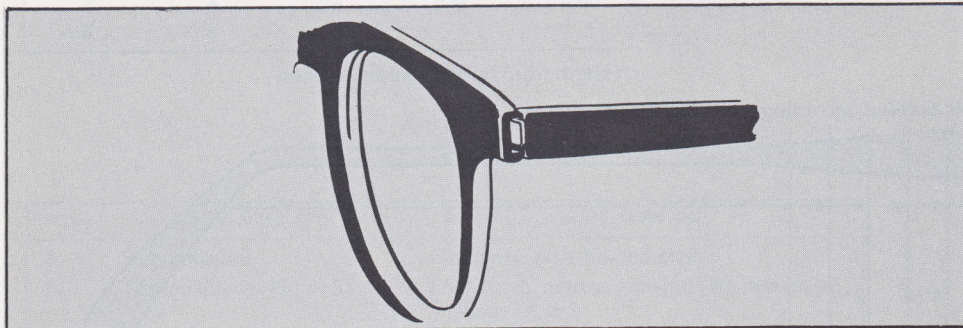
PLASTIC SAFETY GLASSES



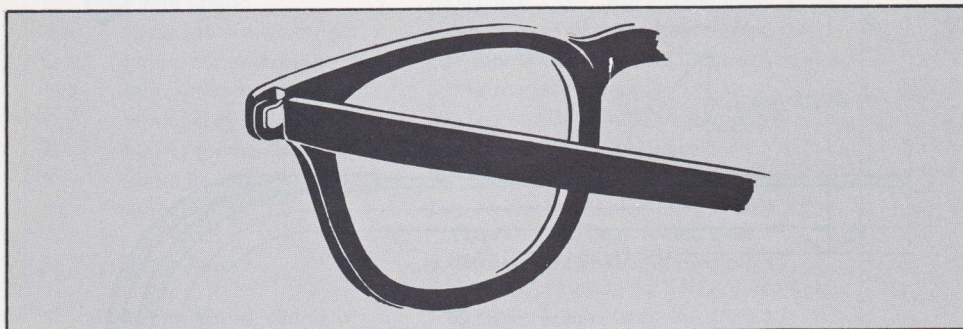
METAL SAFETY GLASSES



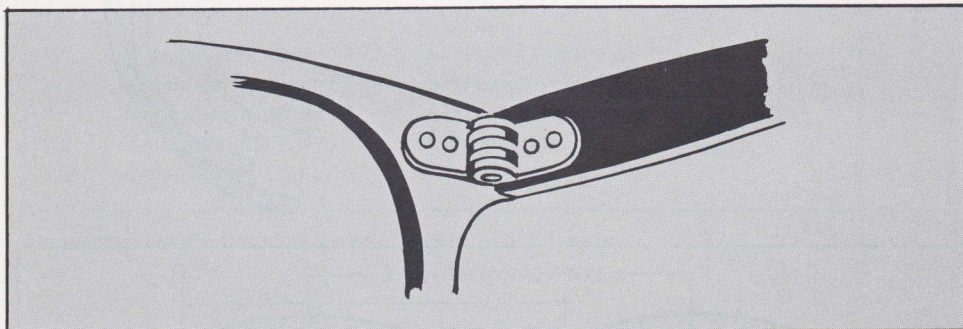
WELSH — protection by design



BUTT JOINT TEMPLE DESIGN
results in more rugged safety spectacle construction. More dependable temple to front fit.

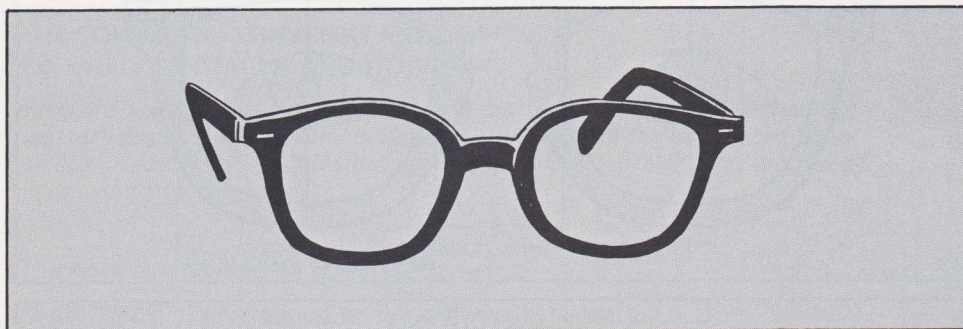


EXCLUSIVE TEMFLEX SPRING
resists bowing and permits a more secure, comfortable fit. Buffer action of built-in spring at critical point where temple meets front relieves temple pressure on frame and secures spectacles in correct position preventing slippage on nose.



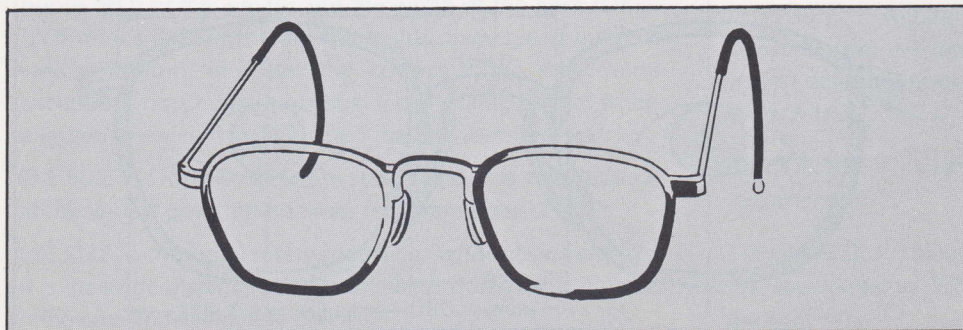
GOVERNMENT SPECIFICATION 5 BARREL HINGE.

Standard on all Welsh safety spectacles. Assures smooth action. Lock screw prevents loosening. Has wide range of adjustments.



ATTRACTIVE, HEAVY DUTY FRAMES.

Beefed up in critical areas where stress occurs. Engineered specifically for industrial use. Eye size and temple length clearly identified.

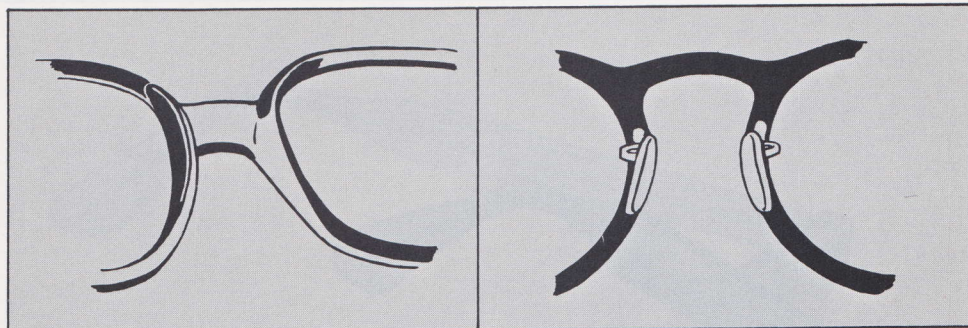


Where working conditions require an extra measure of protection, Welsh metal and combination metal and plastic frames provide the ultimate in spectacle safety.

COMFORTABLE, WELL-FITTING BRIDGES.

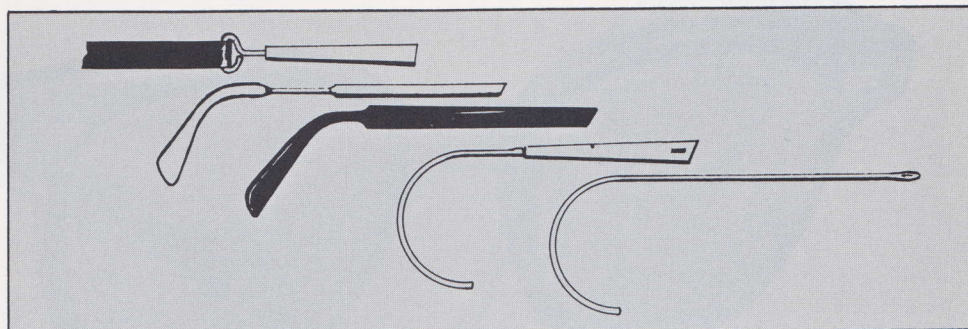
Modern efficient "Unibridge" design fits more than 95% of employees. Fixed bridges also available.

Rocker arm nose pads can be adapted to both.



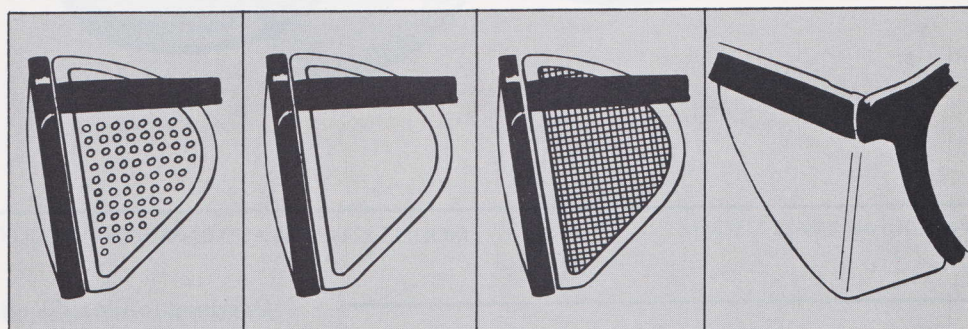
CHOICE OF TEMPLES.

Spade, metal paddle, plastic spatula, aluminum spatula, comfort cable or metal cable temple. Size clearly identified on temple.



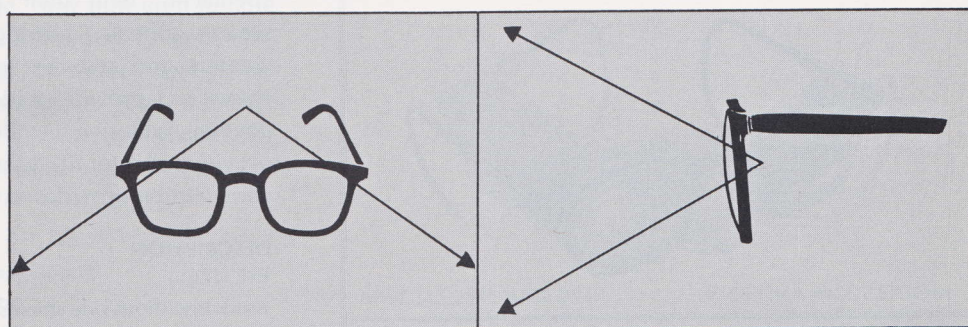
SIDE SHIELDS.

Total line. Perforated or solid, clear or green plastic. / Coarse or fine mesh wire screen. / Unique one piece Flat-Fold side shield and temple combinations available on some models. / Easily applied slip-on side shields.



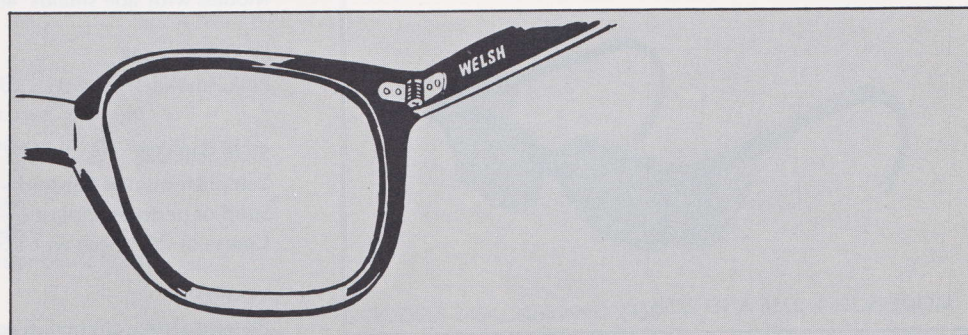
WIDE VISION AND GOOD ORBITAL FIT.

Precisely designed frames provide wide vision and lens angle follows orbit of eye, free and clear of eye-lashes.

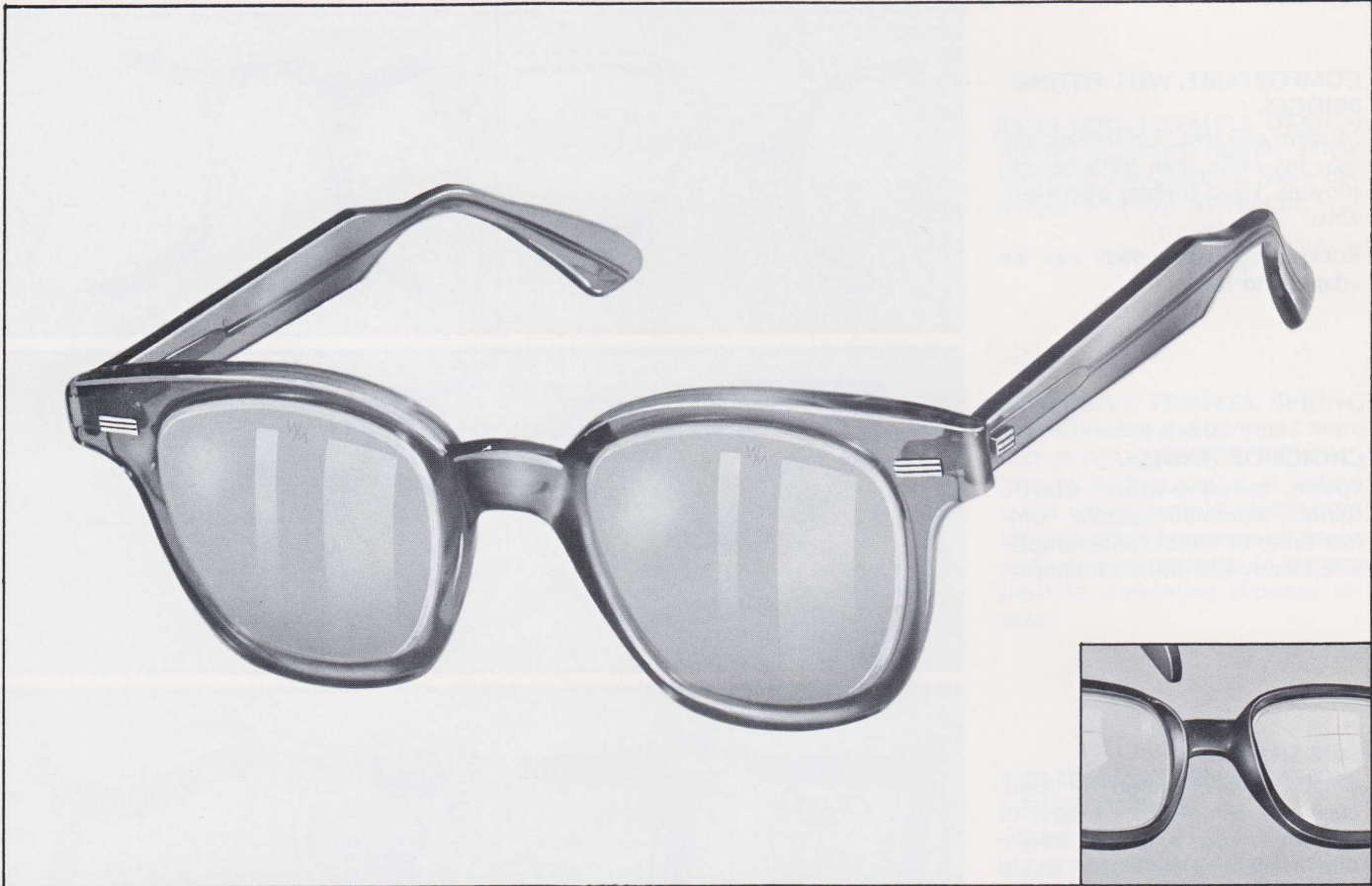


IDENTIFIED PROTECTION.

Welsh safety spectacles are clearly identified by name and trade mark — your assurance of a full measure of safety.



series 2200 plastic frame unibridge® safety spectacles



MODELS 2244, 2246 AND 2248

UNIBRIDGE



MODELS 2245 AND 2249



MODELS 2254, 2256 AND 2258

Designed to simplify individual fitting problems, these safety spectacles, with their attractive, trim styling, have great wearer appeal. Unibridge® design fits more than 95% of wearers and reduces inventory requirements. Modern S7 shape lens provides wide angle of vision and looks well on anyone. Exclusive Temflex spring resists frame bowing and provides a better fit. An improvement in the butt joint temple construction provides extra long temple and frame life.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm, 48mm
Models with side shields: 46mm and 48mm

FRAME COLOR

Pink, smoke or cordovan

LENSES

6.00 Curve, S7 shape
(See page 6 for details on lenses)

SIDE SHIELDS

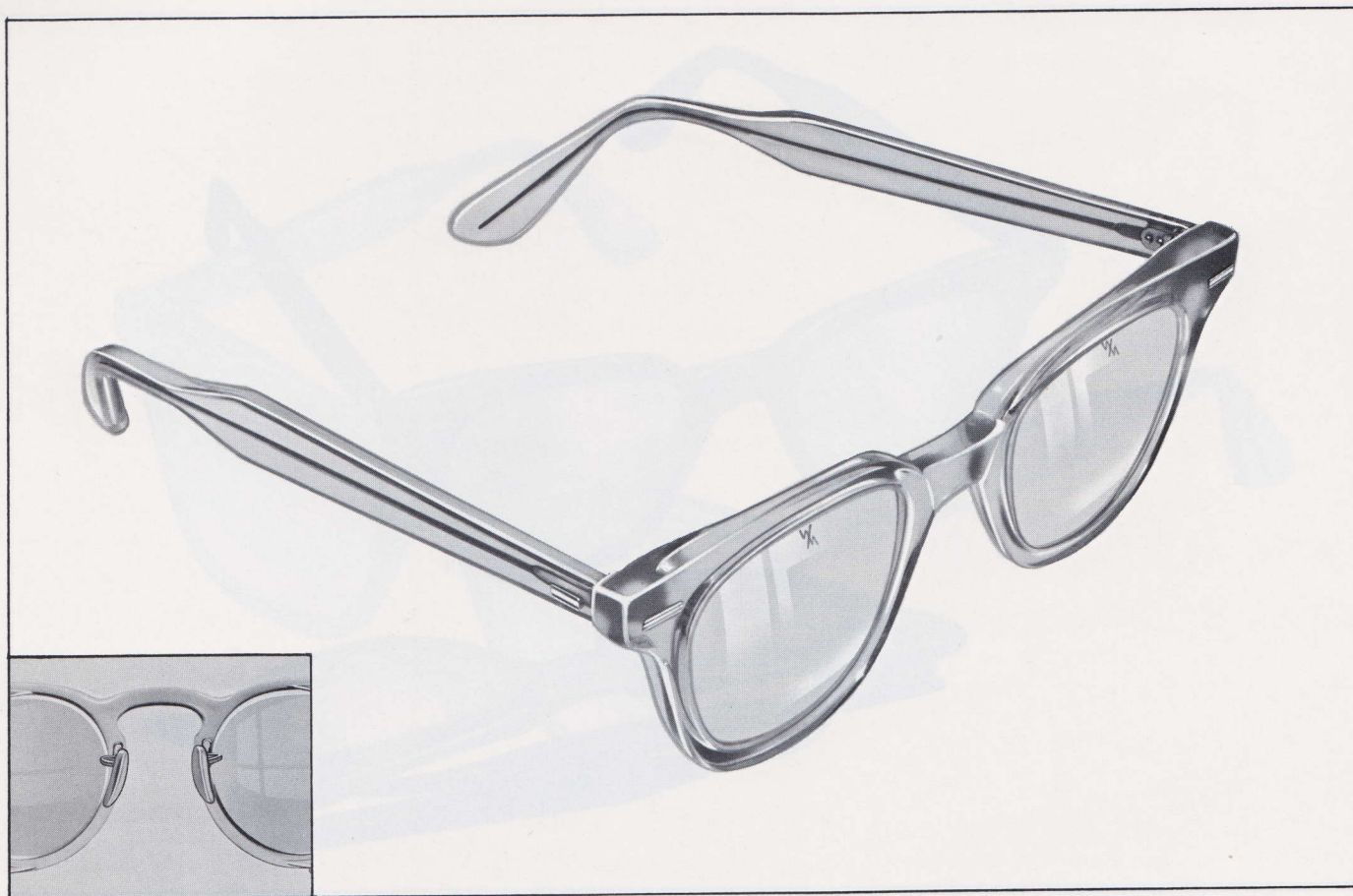
Temple mounted flat-fold — clear or green
Solid or perforated plastic — clear or green.
Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Plastic spatula, aluminum spatula, comfort cable or metal paddle

Turn to pages 17 & 18 for detailed parts list. For prices on all Models, see page 3 Price List.

series 2400 plastic frame, fixed bridge safety spectacles
series 2500 same with rocker arm nose pad



ALL MODELS IN SERIES 2500 HAVE ROCKER ARM NOSE PADS.

MODELS 2444, 2446 AND 2448

Truly light in weight for maximum comfort but with added strength in upper frame across bridge. New butt joint temple construction . . . strong, light and trouble-free. S7 lens contributes to attractive modern styling for wearer appeal. Incorporates fitting and durability advantages of Temflex spring. With fixed bridge design this series is primarily for safety Rx but is also well accepted with plano lenses.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm, 48mm
 Models with side shields: 46mm and 48mm

BRIDGE SIZE

18mm, 20mm, 22mm, 24mm, 26mm

FRAME COLOR

Pink, smoke or cordovan

LENSES

6.00 curve, S7 shape
 (See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold — clear or green
 Solid or perforated plastic — clear or green
 Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Plastic spatula, aluminum spatula, comfort cable or metal paddle



MODELS 2445 AND 2449



MODELS 2454, 2456 AND 2458

Turn to pages 17 & 18 for detailed parts list. For prices and data on all Models see page 4 Price List.

series 2600 "Triumph" plastic frame safety spectacles



MODELS 2644, 2646, AND 2648 TEMPLE-TO-TEMPLE REINFORCEMENT



MODELS 2654, 2656, 2658



MODELS 2645, 2649

"Triumph" Series 2600 spectacles combine unusual strength with handsome appearance. They feature temple to temple reinforcement with an imbedded metal strip across top of frame assuring complete shape retention under extreme environmental conditions. Ends bridge-breaking problems. The Temflex spring in addition to resisting bowing, helps hold bridge in correct position on nose. Result is the best fitting safety spectacles on the market. Unibridge design allows one bridge size to comfortably fit 95% of users. Has clean, high styling with a wide choice of colors and temples. For persons with unusual facial features, rocker arm nose pads can be added.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm or 48mm

Models with side shields: 46mm or 48mm

FRAME COLOR

Ebony, brown mist or smoke

LENSES

6.00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold — clear or green.

Solid or perforated plastic — clear or green

Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Plastic spatula, aluminum spatula or comfort cable

Turn to Pages 17 & 18 for detailed parts list. For Prices see page 5 Price List

for the ladies

series 2700 "Cinderella" plastic frame safety spectacles



MODELS 2744 AND 2746

Popular "Cinderella" safety spectacles have crisp, clean lines — designed to flatter the feminine face. Light in weight, these durable spectacles incorporate the easy and unusual fine fitting advantages of the Unibridge® frame combined with the Temflex spring. Long term, comfortable protection with plenty of wearer appeal — frame colors and temple styles to please any girl.

DESCRIPTION

EYE SIZE

All Models: 44mm or 46mm

FRAME COLOR

Brown mist or smoke

LENSES

6.00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold only — clear or green

TEMPLES

Plastic spatula, aluminum spatula, comfort cable, and metal paddle



MODELS 2754 AND 2756

Turn to pages 17 & 18 for detailed parts list. For prices see page 6 Price List.

series 2900 combination metal and plastic frame safety spectacles



Excellent spectacles for safety Rx, but also well accepted for plano lenses. Dark plastic trim and attractive metal bridge blend with clean, crisp eye wire to make one of the most distinctive safety spectacles on the market. Adjustable non-corrosive, plastic nose pads assure wearer comfort.

DESCRIPTION

EYE SIZE: 44mm, 46mm, 48mm

BRIDGE SIZE: 20mm, 22mm, 24mm

FRAME COLOR LENSES

Cordovan, black, or brown 6:00 Curve S7 Shape

NO SIDE SHIELDS (See page 6 for details on lenses)

TEMPLES

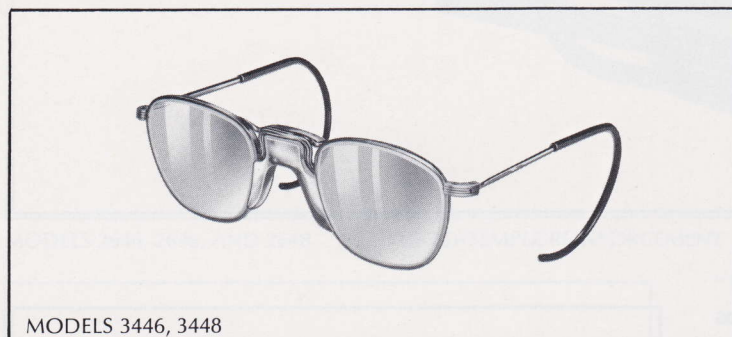
Plastic spatula, aluminum spatula, comfort cable and metal paddle.

See pages 17 & 18 for detailed parts list.

For prices on all models, see page 9 price list.

series 3400 metal frame "Unibridge"® safety spectacles

series 3700 metal frame safety spectacles



Protection by design — heavy duty metal frame spectacles for dependable protection under extreme working conditions. Have reinforced metal bar bridge for high rigidity and extra long life. Models 3446 and 3448 incorporate unique, plastic insert Unibridge®. Result is lower inventory requirement while providing a most comfortable fit with no metal touching the skin. Other models have rocker arm nose pads with solid shanks for maximum shock resistance, S7 shape lenses and high end pieces provide full vision and modern styling.

DESCRIPTION

EYE SIZES: 46mm, 48mm

BRIDGE SIZE

Series 3400: "Unibridge" insert fits all

Series 3700: 22mm, 24mm, 26mm

FRAME COLOR

Nickel silver

LENSES

6:00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Solid or perforated plastic — clear or green

Coarse or fine mesh wire screen — bright or black finish

TEMPLES

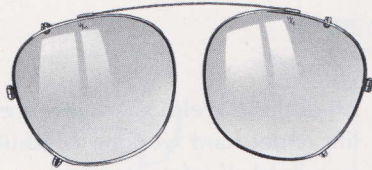
Metal cable or metal paddle

See pages 17 and 18 for detailed parts list.

For prices on all models, see pages 7 and 8 of Price List.



clip-on spectacles



STYLE 3946 & 3948



STYLE 3950

Clip-On, Clip-Over, Hook-Over — no matter what you call them, Welsh has the broadest line of frontal lens protection for Rx safety programs and regular Rx glasses. An efficient, low cost way of adding to life of lens and thereby reducing replacement costs. Choice of plastic lenses: Clear for protection against pitting and scratching; Green for protection against effects of glare. Universal fit enables all models to adapt to any size spectacles.

STYLE 3946 & 3948 — Metal frame Hook-Over's with clear or green plastic lenses

STYLE 3950 — Plastic spring Clip-On's with clear plastic lenses

STYLE 3951 — Same as 3950 with green plastic lenses

STYLE 3952 — Featherweight, rimless plastic, clip-flip Clip-On's. Clear lens

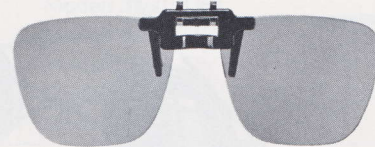
STYLE 3953 — Same as 3952 with green lenses. Green plastic lenses can be flipped up or down for rapidly changing light conditions.

STYLE 3954 — Same as 3952 with gray lenses

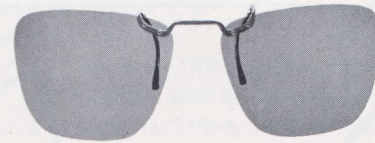
STYLE 3955 — Lightweight, rimless, metal Hook-Over's — clear lenses. Ideal cover lens.

STYLE 3956 — Same as 3955 with green plastic lenses

STYLE 3957 — Same as 3955 with gray lenses



STYLE 3953



STYLE 3956

visitor's spectacles

These light weight, high styled, low cost spectacles are ideal for plant visitors' protection.

STYLE 1066 PLASTIC VISITORS' SPECTACLES with clear lens. Low cost give aways are modern, smartly styled with natural fitting bridge. Black frames. Temples may be imprinted on request. Style 1067 has green lens.

STYLE 1104 METAL FRAME WRAP AROUND VISITORS' SPECTACLES with clear lens have the ever popular international look. Styles: 1105 with green lens, 1106 with neutral grey lens, 1107 with yellow lens. When ordering, add L or S to model number to indicate large or small size lens.

STYLE 1111 PLASTIC FRAME VISITORS' SPECTACLES are uniquely designed with a wide upper frame which fits easily and comfortably over prescription glasses. Available with or without side shields. May be imprinted on request. All visitors' spectacles sold in minimum order lots of one dozen.



STYLE 1066



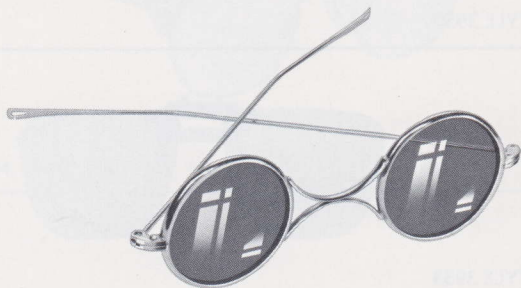
STYLE 1104



STYLE 1111

For prices on Clip-on and Visitors' spectacles models see page 10 Price List.

special purpose metal frame spectacles



STYLE 3040



STYLE 3251



STYLE 3260



STYLE 3261

All of these Welsh spectacles are built for long life under hard working conditions and meet or exceed all safety standards.

STYLE 3040 MELTERS' SPECTACLES — Designed for open hearth operations, for inspecting metal heats and fire boxes. Has reinforced, criss-cross metal bridge and extra long metal temples for ease in lowering and raising. Fitted with 40mm, flat, blue glass lenses.

STYLE 3251 HEAVY DUTY CHIPPERS' AND GRINDERS' SPECTACLES — with reinforced high-bar saddle bridge leather nose guard and side shields.

LENSES: 50mm round, flat.
(See page 6 for details on lenses.)

TEMPLES: Vinyl covered cable.

SIDE SHIELDS: Leather (illustrated).
Solid or perforated Plastic — clear or green.
Wire screen — black or bright finish.

STYLE 3250 (not illustrated) — Same as 3251 without side shields

STYLE 3260 WELDERS' FLASH SPECTACLES — with reinforced, high bar saddle bridge, leather nose guard and leather bridge.

LENSES: 50mm round, flat. 2.0 shade is standard.
1.7 and 2.5 shades available on special order.
(See page 6 for details on lenses.)

TEMPLES: Vinyl covered cable.

SIDE SHIELDS: Leather

STYLE 3261 — Same as 3260 with solid green acetate side shields instead of leather.

See pages 17 & 18 for detailed parts list.
For prices on all models, see page 11 of Price List.

replacement parts – spectacles



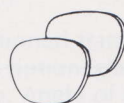
G and H



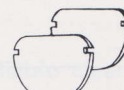
V and W



A, D and P



HX and WX



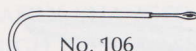
1080-1
1080-2

LENSES (See page 6 for complete details)

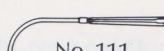
| STYLE | LENS SIZES | | | DESCRIPTION |
|-------|---------------------|------|------|--|
| G | 44mm | 46mm | 48mm | Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700 |
| H | 44mm | 46mm | 48mm | Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700 |
| V | 44mm | 46mm | 48mm | Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700 |
| W | 44mm | 46mm | 48mm | Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700 |
| A | 50mm round | | | Models 3251, 3250 |
| D | 50mm round | | | Models 3260, 3261 |
| P | 50mm round | | | Models 3260, 3261 |
| D | 40mm round | | | Model 3040 |
| HX | 46mm or 48mm square | | | Model 3900 |
| WX | 46mm or 48mm square | | | Model 3900 |

TEMPLES AND TUBING

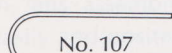
| NO. | |
|------|---|
| 106 | Metal cable, vinyl covered for Model 3200 |
| 107 | Tubing only for Model 3200 |
| 108 | Metal cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 3700 & 3400 without side shields |
| 108P | Metal paddle 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 3700 & 3400 without side shields |
| 109 | Metal cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 3700 & 3400 with side shields |
| 109P | Metal paddle 6 ³ / ₄ ", 6", 5 ³ / ₄ " for Series 3700 & 3400 with side shields |
| 10GR | Spade temple |
| 110 | Tubing only for Series 3700 & 3400 |
| 111 | Comfort cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 2200, 2400, 2600, 2700, 2900 |
| 112 | Spatula 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900 |
| 112T | Metal paddle 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900 |
| 112A | Aluminum spatula 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900 |
| 199 | Straight metal, open tip, for Model 3040 |
| | Standard Cable temples — 6 ³ / ₄ " |
| | Standard Spatula temples |
| | 48mm eye size — 6" 44 & 46mm eye size — 5 ³ / ₄ " |



No. 106



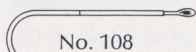
No. 111



No. 107



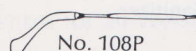
No. 112



No. 108



No. 112A



No. 108P



No. 112T



No. 110



No. 117



No. 118



No. 170



No. 176



No. 170H



No. 113H



No. 115H



No. 116H



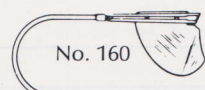
No. 119H

SIDE SHIELDS

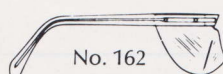
| NO. | FOR SERIES 3200 | FOR SERIES 2200, 2400, 2600 AND 2700 | |
|------|-------------------------------------|--------------------------------------|-------------------------------------|
| 113H | Wire screen | 176 | Slip-ons, clear |
| 115H | Solid plastic, clear or green | 177 | Slip-ons, green |
| 116H | Perf. plastic, clear or green | FOR SERIES 3400 AND 3700 | |
| 119H | Leather | 117H | Solid plastic, clear or green |
| | FOR SERIES 2200, 2400 AND 2600 | 118H | Perf. plastic, clear or green |
| 117 | Solid plastic, clear or green | 170H | Wire screen, 24 mesh, bright finish |
| 118 | Perf. plastic, clear or green | 173H | Wire screen, 24 mesh, black finish |
| 170 | Wire screen, 24 mesh, bright finish | 174H | Wire screen, 40 mesh, bright finish |
| 173 | Wire screen, 24 mesh, black finish | 175H | Wire screen, 40 mesh, black finish |
| 174 | Wire screen, 40 mesh, bright finish | | |
| 175 | Wire screen, 40 mesh, black finish | | |

TEMPLES WITH SIDE SHIELDS ATTACHED

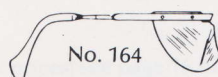
| NO. | FOR SERIES 2200, 2400, 2600 AND 2700 With solid Flat-fold side shields |
|-----|---|
| 160 | Comfort cable clear |
| 161 | Comfort cable green |
| 162 | Spatula clear |
| 163 | Spatula green |
| 164 | Metal paddle clear |
| 165 | Metal paddle green |



No. 160



No. 162



No. 164

For prices, see pages 12, 13 & 14 of Price List.



No. 101 No. 102 No. 103 No. 104



No. 105 No. 120



No. 121



No. 341



No. 122

SCREWS & RIVETS

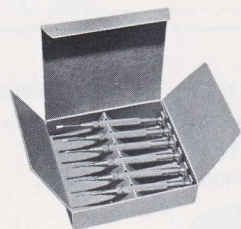
| NO. | |
|-----|-------------------------------------|
| 101 | End piece screw, Series 3200 |
| 102 | Temple screw, Series 3700 & 3400 |
| 103 | Temple screw, Series 3200 |
| 104 | Temple screw, Series 2900 |
| 105 | End piece screw, Series 2800 |
| 120 | Rivets for replacement side shields |
| 293 | End piece screw, Series 2900 |

NOSE PAD ASSEMBLY

| NO. | |
|------|---|
| 121 | Rocker Arm Assembly, Series 2500 |
| 121A | Pad and pad rivet, Series 2900, 3700 & 2500 |

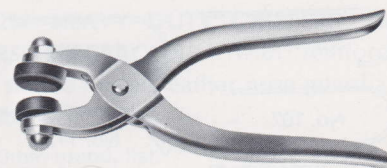
MISCELLANEOUS

| NO. | |
|-----|--|
| 341 | Unibridge plastic insert, Series 3400 |
| 122 | Leather nose guard, Series 3200 & Model 3040 |

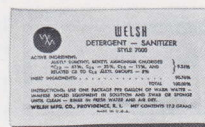
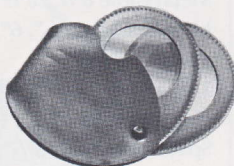


9000
Set of 6 screw drivers in blade sizes: .025, .040, .055, .070, .080, .100

9500
Lens inserting pliers for plastic frames



Pocket Polaroscope



Detergent Sanitizer

safety spectacle cases



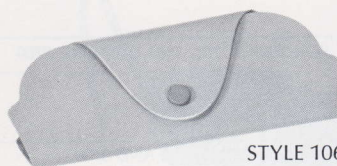
STYLE 1060 XV



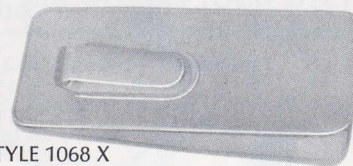
STYLE 1063 X



STYLE 1069 X



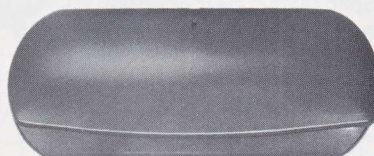
STYLE 1062 X



STYLE 1068 X



STYLE 1067 X



STYLE 1061 X



STYLE 1064 X

| STYLE | DESCRIPTION |
|--------|---|
| 1060XV | Vinyl Lizard for Spectacles without Side Shields |
| 1061X | Metal Clam Shell for Spectacles without Side Shields |
| 1062X | Leatherette for Visitors Spectacles |
| 1063X | Metal Clam Shell for Spectacles with Side Shields |
| 1064X | Vinyl Slip-In Case with Deluxe Liner |
| 1067X | Leatherette Folding Case for Clip-On Spectacles |
| 1068XP | Texas Tan Vinyl Slip-In Case without Pocket Clip for Spectacles without Side Shields |
| 1068X | Texas Tan Vinyl Slip-In Case with Pocket Clip for Spectacles without Side Shields |
| 1069XP | Jumbo Texas Tan Vinyl Slip-In Case without Pocket Clip for Spectacles with Side Shields |
| 1069X | Jumbo Texas Tan Vinyl Slip-In Case with Pocket Clip for Spectacles with Side Shields |

For prices, see pages 14 & 15 of Price List.

WELSH Zephyr® — soft frame, single lens goggles

safe and comfortable for a wide range of hazardous conditions

The ultimate in wearer comfort, safety and efficiency. Protection by design.

Deep, well proportioned frame fits easily and comfortably over prescription glasses. Clarity of frame permits wide vision. Angle of lens in frame provides ideal working vision. Elastic headbands standard, neoprene available on request.

SOFT FRAME — Pliable clear or green frame with wide flanged edges cushion-fits to face — rests comfortably over nose. No metal parts.

LIGHTWEIGHT — So light that it can be worn all day without wearer fatigue.

EASILY CHANGED

HIGH IMPACT LENS — No hooks or snaps required in lens assembly. Clear or green plastic lens fits easily and positively in molded channel. Meets Federal specifications for impact protection.

1070-1 clear lens, 1070-2 Green lens and 1070-3 Clear Vinyl lens are interchangeable replacement lenses for all Welsh Zephyr models.

A VARIETY OF MODELS FOR MANY HAZARDOUS CONDITIONS.

MODEL 1070 — Frame is perforated on top and sides to provide maximum ventilation for average working conditions without sacrificing protective qualities.

MODEL 1072 — Has indirect ventilation with exclusive, splash-proof, non-corrosive, plastic, stack-trap vents in place of perforations for acid and splash conditions.

MODEL 1073 — Has non-ventilated frame for extreme hazards of toxic or irritating fumes, vapors and dusts.

MODEL 1074 — Frame has non-perforated top for limited splash conditions. Perforations for ventilation on bottom and side only.



MODEL 1070



MODEL 1072



STACK TRAP VENT

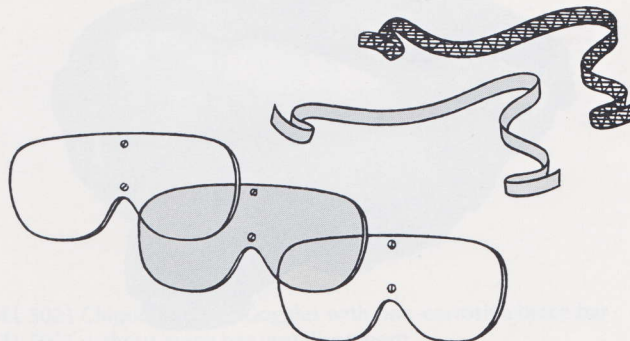


MODEL 1073



MODEL 1074

REPLACEMENT PARTS



For prices, see page 16 of Price List.

specialty goggles



MODEL 1090 (Clear and Green) — Low cost. Rigid, one piece, non-flammable acetate construction. Perforated for ample ventilation. One piece elastic headband.



MODEL 1120 — Light weight, low cost, chenille-bound plastic goggles for dust conditions. Hinged bridge section allows goggles to flex to shape of face. Chenille binding is soft, comfortable — sure seal against dust. Has one piece elastic headband. Effectively worn in combination with dust respirator.



MODEL 1045 — Multipurpose rubber frame goggles. Comfortable fitting eye protection against chemical splashes, dust and wind blown particles. Clear or green replaceable plastic lens (.040 or .060 thick). Choice of wire screen or felt ventilation filters. Neoprene headband.



MODEL 1040 — Fog-free, dust-free rubber frame goggles. Breathing action changes air in lens chamber up to 64 times a minute . . . prevents fogging or frosting down to 35°F. Filters keep out dust and other particles. Frame fits comfortably over prescription glasses. Available with replaceable clear or green plastic lens (.040 thick).

For prices, see pages 16 & 17 of Price List.

rigid frame, cup and cover goggles

These Welsh cup and cover goggles have a number of design features which have won the respect of wearers. They are made of high quality, thermal plastic and have a jam-proof rim assembly.

Cup Goggles have adjustable bridge of neoprene-insulated ball chain secured by unique patented metal chain keeper.

Cover Goggles with deep contoured cups are comfortably worn over all types of spectacles. Cups are connected by soft vinyl nose guard with simple adjustment. Brace bar across upper frame, which permits wearer to easily raise goggle with one hand, is optional.

welders' goggles

Indirect ventilation through scientifically designed baffled vents of non-corrosive metal provides maximum protection against injurious welding rays while minimizing fogging of lenses.

Welding lenses conform to all Federal Specifications — available in shades 3 through 8 for all models. Cover lenses protect against spatter and pitting.

Standard adjustable headband is elastic — neoprene available on request.

chippers' goggles

Maximum eye protection for extremely hazardous conditions. Cups are unaffected by moisture, steam, sterilization and most acids.

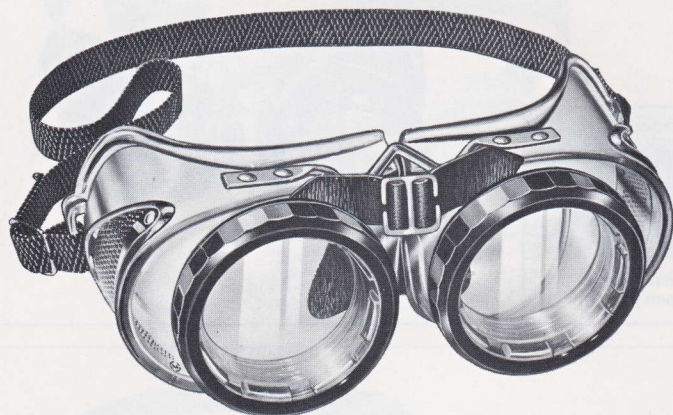
Fine, perforated, non-corrosive metal screen provides good ventilation and prevents lens fogging. Lenses are tough-hardened, clear heat-treated glass.

Choice of opaque or transparent cup and cover frames. Standard adjustable headband is elastic — neoprene available on request.

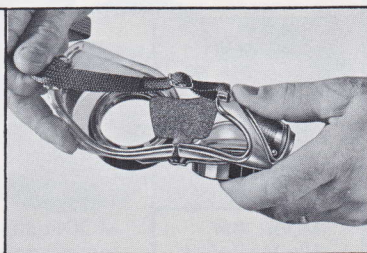
| | |
|---|---|
|  <p>Chain Keeper in open position</p> |  <p>MODEL 5002 Welders' Cup Goggles</p> |
|  <p>MODEL 5124 Flip-Top Welders' Cover Goggles</p> |  <p>MODEL 5024 Welders' Cover Goggles with non-corrosive brace bar MODEL 5022 without brace bar is not illustrated</p> |
|  <p>MODEL 5001 Chippers' Cup Goggles MODEL 5005 Dust Cup Goggles — with fine wire mesh ventilation (not illustrated) MODEL 5006 Chemical Cup Goggle — with metal baffle ventilation (not illustrated)</p> | |
|  <p>MODEL 5023 Chippers' Cover Goggles with non-corrosive brace bar MODEL 5021 without brace bar (not illustrated)</p> | |

For prices, see page 18 of Price List.

soft frame goggles



STYLE 5053



Modern, lightweight, heavy duty eye protection. Only completely adjustable cover goggle on the market. Soft, pliable, contour designed vinyl frames provide the ultimate in comfort and fit — even over prescription glasses.

Lenses are easily disassembled for changing or replacement. Elastic headbands are standard; neoprene available on request.

chippers' goggles

MODEL 5053 — "SOFT-I" Has pliable transparent frame with metal screen ventilation to prevent fogging. Has brace bar across bridge for ease of handling.

MODEL 5071 — "CYCLOPS" Has soft, resilient frame of one piece transparent plastic with unique stack trap vents for good ventilation. Has two easily assembled CR-39 plastic plates.



STYLE 5071

For prices, see page 19 of Price List.

soft frame goggles

welders' goggles

MODEL 5054 — "SOFT-I" Has pliable opaque frame with non-corrosive metal baffles for good indirect ventilation while guarding against harmful flashes and light leaks. Welding lenses, shades 3 through 8, conform to all Federal Specifications. Cover lenses protect against spatter and pitting. Reinforced with non-corrosive metal brace bar for easy one-handed lifting of goggles.

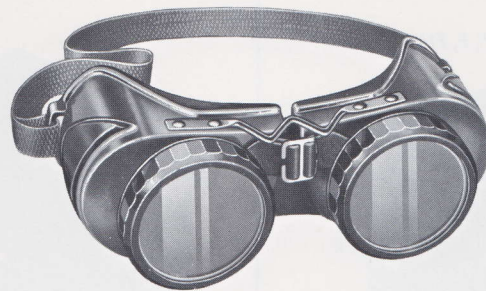
MODEL 5050 — not illustrated — without brace bar.

MODEL 5154 — same "SOFT-I" cover goggle as 5054 on cushioned headrest frame in place of elastic headband for easy raising and lowering of goggles.

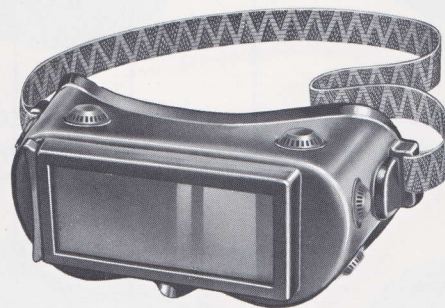
MODEL 5070 — "CYCLOPS" One piece, opaque, cover-all frame with exclusive stack-trap indirect ventilation which guards against harmful flashes and light leaks. Has fixed front and simplified lens holder for easiest possible lens replacement.

MODEL 5171 — has same welders' Cyclops goggle as Model 5070 but has cushioned headrest frame in place of elastic headband.

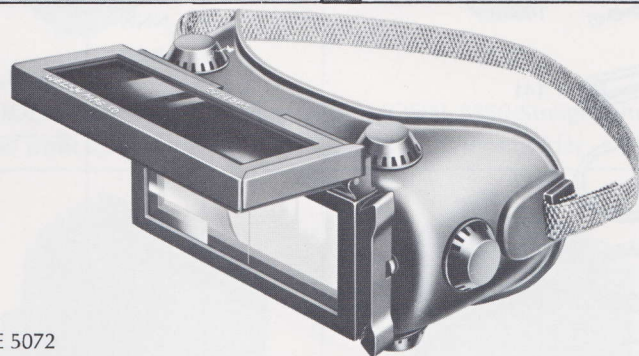
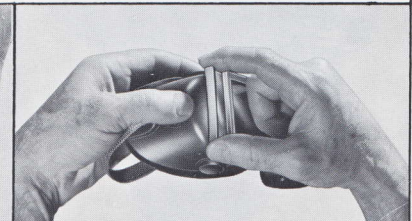
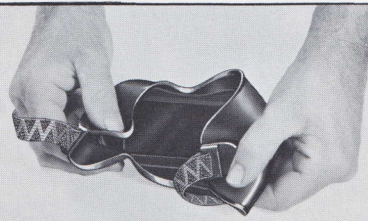
MODEL 5072 — same as Model 5070 but with lift front lens holder. Special adaptor included for inserting magnifying lens (Magnaview) in fixed position behind lift front for close work.



STYLE 5054



STYLE 5070



STYLE 5072



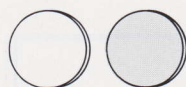
STYLE 5154



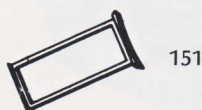
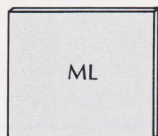
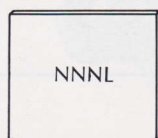
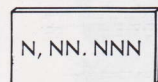
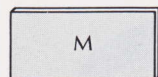
STYLE 5170

For prices, see page 19 of Price List.

replacement parts, cup and cover goggles



STYLE A STYLE P, F, FH



(See page 5 for details on lenses)

| LENSES | |
|---|---|
| FOR CHIPPERS' Series 5001, 5005, 5006, 5023, 5051, 5053, 5071 | |
| STYLE | SIZE |
| A | 50mm round Clear |
| P | 50mm round Filter |
| NNN | 2" x 4 1/4" Cover |
| FOR WELDERS' Series 5002, 5022, 5024, 5050, 5054, 5070, 5072 | |
| STYLE | SIZE |
| F | 50mm round Filter |
| FH | 50mm round Filter |
| NNN | 50mm round Cover |
| L | 50mm round Cover |
| LL | 50mm round Cover |
| LLL | 50mm round Cover |
| NNN | 2" x 4 1/4" Cover clear CR-39 plastic |
| FOR HELMETS | |
| STYLE | SIZE |
| M | 2" x 4 1/4" Filter |
| MH | 2" x 4 1/4" Filter |
| ML | 4 1/2" x 5 1/4" Filter |
| N | 2" x 4 1/4" Cover |
| NN | 2" x 4 1/4" Cover |
| NNN | 2" x 4 1/4" Cover clear CR-39 plastic |
| NNNL | 4 1/2" x 5 1/4" Cover clear CR-39 plastic |
| OTHER PARTS FOR GOGGLES | |
| STYLE | |
| 136 | Elastic headbands & buckles for Series 5000 |
| 137 | Rubber headbands & buckles for Series 5000 |
| 138 | Buckles for elastic headbands for Series 5000 |
| 139 | Buckles for rubber headbands for Series 5000 |
| 140 | Chain bridge for Series 5000 |
| 141 | Chain bridge tube for Series 5000 |
| 142 | Lens washer |
| 143 | Rims |
| PARTS FOR GOGGLES, Models 5022, 5024, 5050, 5054 | |
| STYLE | |
| 144 | Bridge strap & buckles |
| 145 | Bridge strap buckles |
| 146 | Bridge strap only — (no illustration) |
| 147 | Crown, brace with rivets |
| 151 | Lens inserter & separator, green for Model 5070 |

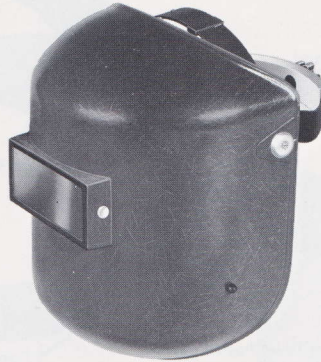
For prices, see pages 20 & 21 of Price List.

"Warrior" fiberglass welding helmets and handshields

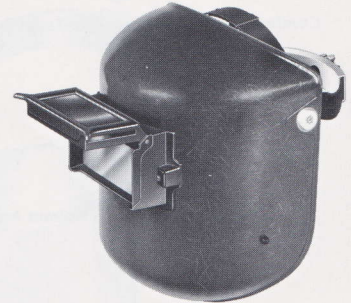
Welsh fiberglass shells resist heat and weld splatter — are lightweight, long lived and moisture proof and as strong as steel. Lens and cover plates are easily replaced. Lens holder is molded integral part of shell — no need of backup plates. A chin rest assures maximum comfort. Curved shell is extra roomy; straight shell gives added throat protection. Ratchet headgear adjusts instantly to head size, with rugged nylon ratchet assembly. Sweat band adds to comfort fit. New, improved positive positioning lock holds helmet at proper eye level for any welding position. A nod of the head lowers helmet ready for welding.

For information on Safety Cap and Helmet Combinations, see Welsh Head Protection Catalog.

(Illustrations show standard combinations of helmet types, curved bibs or straight bibs. Note handshield Models 8280 and 8380 have no head gear. All are available with fixed fronts or lift fronts.)



MODEL 8200 Curved shell,
fixed front lens holder



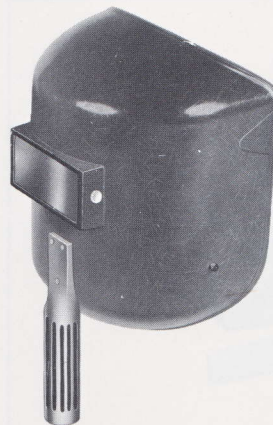
MODEL 8250 Curved shell,
lift front lens holder



MODEL 8300 Straight shell,
fixed front lens holder



MODEL 8350 Straight shell,
lift front lens holder



MODEL 8280 Curved shell
handshield, fixed front lens
holder

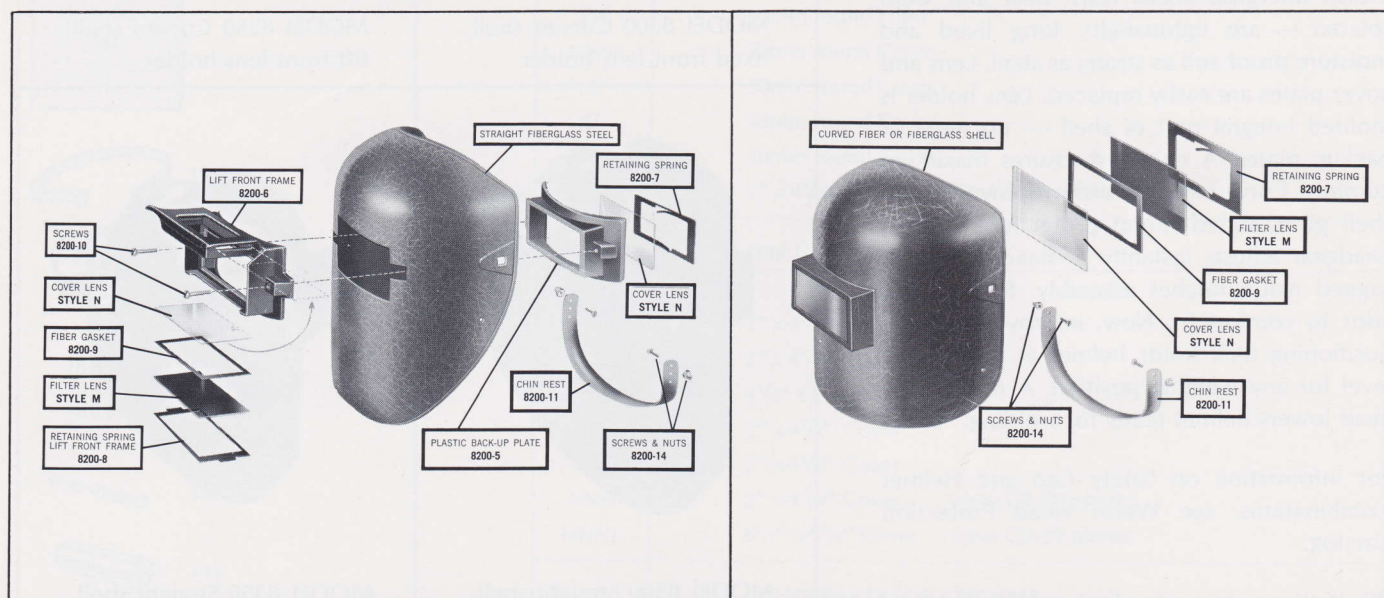
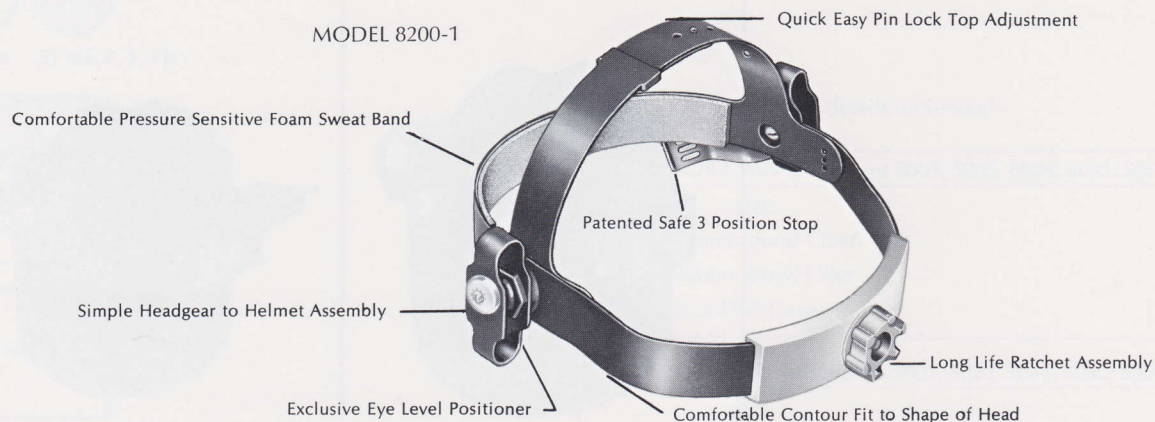


MODEL 8380 Straight shell
handshield, fixed front lens
holder

For prices, see page 21 of Price List.

WELSH welding headgear

sturdy, lightweight, comfortable, and interchangeable on all **WELSH** shells.



REPLACEMENT PARTS "WARRIOR" WELDING HELMETS (See page 5 for details on lenses)



NO. 8200-12

| NO. | DESCRIPTION |
|----------|---------------------------------------|
| 8200-1 | Headgear — ratchet type |
| 8200-3 | Glass holder complete, lift front |
| 8200-5 | Back up plate — lift front |
| 8200-6 | Glass holder, outer frame, lift front |
| 8200-7 | Lens retaining spring |
| 8200-8 | Lens retaining spring, lift front |
| 8200-9 | Lens gasket |
| 8200-10 | Screws for lens holder |
| 8200-11 | Chin rest with hardware |
| 8200-12 | Foam sweat band (box of 12) |
| 8200-13 | Leatherette sweat band |
| 8200-14 | Screws and Nuts for chin rest |
| 8200-15A | Red plastic button & screw |

For prices, see page 21 of Price List.

lightweight face shields

One of the handiest protective devices offered by Welsh. This low cost, lightweight face shield slips on and off in an instant. Gives good protection to entire face . . . vision is little hampered even when dust or spray is heavy. Fits all head sizes — shield is held on securely by headband. Top band adjusts quickly with pin lock. Positive stop side nut prevents window from hitting face. Pressure sensitive foam sweat band for maximum comfort and sweat absorption.

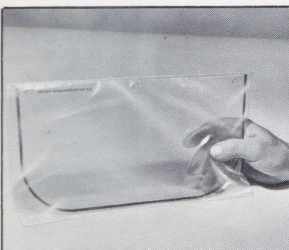
Windows, .020", .040" and .060" thick, in 4, 6, 8 or 9 inch lengths and clear or green acetate, are easily replaced. A fiber band with 3 snaps hold windows securely to the wide plastic spark guard. Foam sweat band adds to comfort fit.

REPLACEMENT WINDOWS

| NO. | LENGTH OF WINDOW | THICKNESS | COLOR |
|------|------------------|-----------|----------|
| 6824 | 4" | .020" | clear |
| 6826 | 6" | .020" | |
| 6828 | 8" | .020" | |
| 6829 | 9" x 15 1/2" | .020" | or |
| 6844 | 4" | .040" | green |
| 6846 | 6" | .040" | shades — |
| 6848 | 8" | .040" | medium |
| 6849 | 9" x 15 1/2" | .040" | or |
| 6864 | 4" | .060" | dark |
| 6866 | 6" | .060" | |
| 6868 | 8" | .060" | |
| 6869 | 9" x 15 1/2" | .060" | |

HEADGEAR PARTS

| NO. | DESCRIPTION |
|--------|---|
| 6000-1 | Spark guard strap for Models 6300, 6400, 6500 |
| 6000-2 | Adjustable headband & buckle for Model 6400 |
| 6000-3 | Spark guard locknut for Models 6300, 6400, 6500 |



Windows individually packaged



Easy snap-on window installation



SERIES 6300 the "WELSHMAN" with pin lock headbands



SERIES 6400 the "SPARTAN" with elastic headband



SERIES 6500 the "TROJAN" Molded plastic with ratchet adjustment

For prices, see pages 22 & 23 of Price List.

**OTHER WELSH PROTECTIVE
PRODUCTS FOR INDUSTRIAL
SAFETY.**

RESPIRATORY PROTECTION
HEARING PROTECTION
HEAD PROTECTION
FIRST AID KITS AND REFILLS



WELSH
MANUFACTURING COMPANY
9 MAGNOLIA STREET, PROVIDENCE, R.I. 02909